

Title (en)
TOOTHBRUSH PACKAGE

Title (de)
ZAHNBÜRSTENVERPACKUNG

Title (fr)
EMBALLAGE DE BROSSA A DENTS

Publication
EP 1558112 A4 20080423 (EN)

Application
EP 03774652 A 20031009

Priority
• US 0331821 W 20031009
• US 41786802 P 20021011

Abstract (en)
[origin: WO2004033316A2] Attractiveness of consumer products is enhanced by use of scintillating fluorescent light collecting fibers contained in those products. The fibers collect ambient light of various wavelengths, some not visible, along their length which is collected within the fiber and emitted as visible light at the ends of the fibers. The emitted light can be used to enhance the consumer appeal of the product or promote its use. Specific consumer products disclosed include toothbrushes and liquid soap dispensers.

IPC 1-7
A46B 17/00; **F21V 33/00**

IPC 8 full level
A46B 5/00 (2006.01); **A46B 5/02** (2006.01); **A46B 15/00** (2006.01); **A46B 17/00** (2006.01); **B65D 23/00** (2006.01); **F21V 33/00** (2006.01); **A45D 33/32** (2006.01)

IPC 8 main group level
B65D (2006.01)

CPC (source: EP KR US)
A46B 5/00 (2013.01 - EP US); **A46B 15/0002** (2013.01 - EP US); **A46B 15/0036** (2013.01 - EP US); **A46B 15/0087** (2013.01 - EP US); **A46B 17/00** (2013.01 - KR); **B65D 23/00** (2013.01 - EP US); **F21V 33/00** (2013.01 - KR); **G02B 6/0003** (2013.01 - EP US); **G02B 6/0008** (2013.01 - EP US); **A45D 33/32** (2013.01 - EP US); **A46B 2200/1066** (2013.01 - EP US); **B65D 2203/12** (2013.01 - EP US)

Citation (search report)
• [XY] US 4779173 A 19881018 - CARR CHARLIE O [US], et al
• [X] JP H0456806 A 19920224 - NIPPON PETROCHEMICALS CO LTD
• [Y] US 2001032796 A1 20011025 - RUBENSTEIN MICHAEL [CA]
• [X] US 5813855 A 19980929 - CRISIO JR RAYMOND A [US]
• [XY] US 5030090 A 19910709 - MAEDA TETSUO [JP], et al
• [X] US 5092809 A 19920303 - KESSLER BRIAN D [US]
• [X] GB 2172516 A 19860924 - BRADLEY MILTON INT
• See references of WO 2004033316A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004033316 A2 20040422; **WO 2004033316 A3 20040527**; **WO 2004033316 A9 20040701**; AU 2003282767 A1 20040504;
BR 0315224 A 20050823; CA 2502241 A1 20040422; CN 1719994 A 20060111; EP 1558112 A2 20050803; EP 1558112 A4 20080423;
KR 20050062607 A 20050623; MX PA05003764 A 20050608; RU 2005114014 A 20060120; RU 2316243 C2 20080210;
US 2005229345 A1 20051020

DOCDB simple family (application)
US 0331821 W 20031009; AU 2003282767 A 20031009; BR 0315224 A 20031009; CA 2502241 A 20031009; CN 200380105217 A 20031009;
EP 03774652 A 20031009; KR 20057006161 A 20050408; MX PA05003764 A 20031009; RU 2005114014 A 20031009;
US 10336605 A 20050411